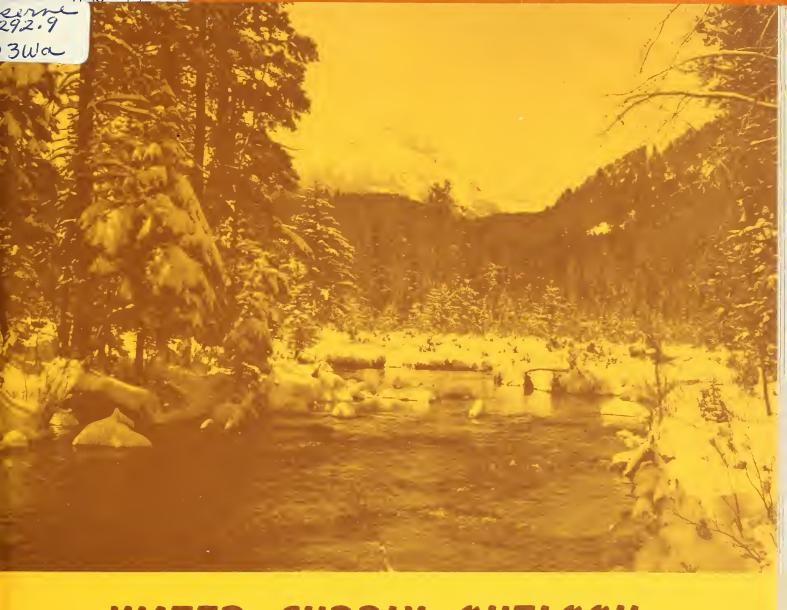
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WATER SUPPLY OUTLOOK FOR UTAH

U. S. DEPT. OF AGRICULTURE

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MAR 3 - 1967

CURRENT SERIAL RECORDS

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,

and

STATE ENGINEER of UTAH

In cooperation with U.S. Forest Service, Bureau of Reclamation, Utah Fish and Game Dept., Utah Agricultural Experiment Station, U.S. National Park Service, U.S. Geological Survey; and other Federal, State, and private organizations.

FEB. 1, 1967

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snaw depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and starage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Sail Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federai–State–Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in coaperation with state water administrators, agricultural experiment stations and others. Capies of the reports for Western United States and all state reports may be abtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Capies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizana.	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Bax 38, Boise, Idaho 83701
Montana	P. O. Box 855, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Partland, Oregon 97205
Utah	4001 Federal Building, Salt Lake City, Utah 84111
Washingtan	840 Bon Marche Bldg., Spokane, Washingtan 99206
Wyoming	P. O. Box 340, Casper, Wyoming 82602

CONSERVATION OF WATER
BEGINS WITH THE

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a repart for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Bax 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

WATER SUPPLY OUTLOOK

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

for

UTAH

FEBRUARY 1, 1967

Report prepared by

GREGORY L. PEARSON - PAUL KEIL

and

Patricia Paramore

SOIL CONSERVATION SERVICE SNOW SURVEY SECTION FEDERAL BLDG., ROOM 4012 SALT LAKE CITY UTAH 84111

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STATE OF UTAH

SALT LAKE CITY, UTAH

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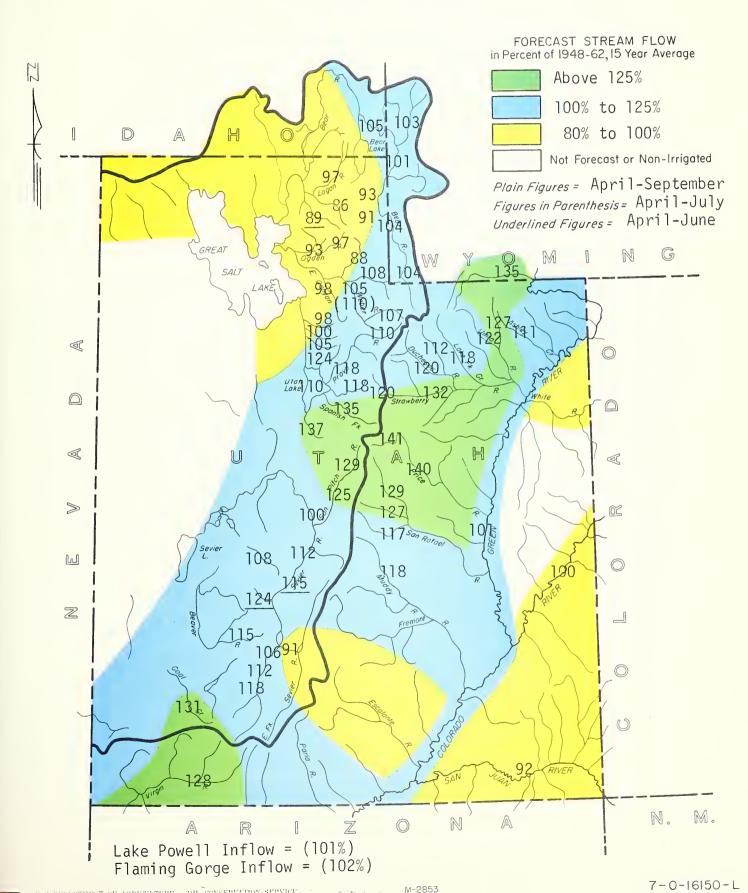
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

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PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS







WATER SUPPLY OUTLOOK

as of

FEBRUARY 4, 1967

Although the overall water outlook is very favorable, there are a few smaller areas in the state where the picture is not quite so bright. Only fair supplies are expected from watersheds near Tooele, in southern Wayne county, the Escalante river and Antimony Creek in Garfield county. Here, about 15% to 20% less than average streamflow is expected. If a warm, dry period should occur for any length of time during the next few months, people living in these areas would experience some water shortages.

The weather over the State during January showed little change from the average pattern of previous months. Temperatures averaged a little above normal except in the Uintah Basin. Largest amounts of precipitation were reported in Utah and Wasatch counties (up to 200% of normal) with an area above 150% of normal extending eastward across the Uintah mountains. From the Ogden river northward, precipitation was near to slightly below normal. Similar conditions existed over the Sevier and Virgin River Basins, but the southeast portion of the State continued very dry.

An especially bright water picture is in prospect for people living in Carbon, Emery and Sanpete counties, and for those served by the Spanish Fork, Strawberry, Whiterocks and Virgin Rivers, smaller streams coming from Mt. Nebo in the Payson to Nephi area, and Coal Creek near Cedar City. These streams are expected to yield from 25% to 50% more than their usual amounts.

Prospects are also good to excellent for areas served by the following streams, where about 10% to 25% above average runoff is anticipated. These streams include the American Fork river, inflow to Strawberry reservoir and Utah Lake, Provo river, northern Uintah Basin streams from the Duchesne to Uinta rivers, Ashley and Brush Creeks. In southern Utah it includes the Sevier river system south of Gunnison (but excluding the East Fork Sevier), the Beaver river, the main Fremont and Muddy rivers.

Next summer's streamflow is expected to be from about 85% to average amounts for streams in Cache, Rich, Weber and Morgan counties, and for the East Fork Sevier river. Average to 10% above average is forecast for the streams of Salt Lake county, the upper Weber (above Echo), inflow to Sevier Bridge reservoir and streams near Fillmore.



WATER SUPPLY OUTLOOK (continued)

Runoff during January was about average over the State during the month. However, it was above average in parts of northern Utah and the extreme south, due in part to the warm weather and some carryover effects of the flood producing storms in southern Utah during December.

Total storage in the principal reservoirs of Utah remained above average. The gain during January of over 22,000 acre feet in the three major reservoirs of the Sevier River System was also a gain of 2% compared to the 1948-62 average.



UTAH STREAMFLOW FORECASTS a (1,000 Ac. Ft.)

FORECAST POINT	FORECAST	THIS YEAR	FORECAST	LAST	AVERAGE b
p PONECAST POINT	THIS YEAR	AS PERCENT OF AVERAGE	PERIOD	YEAR	AVENAGE
BEAR RIVER SYSTEM					
Bear at Harer, Idaho Bear nr Randolph Bear nr Ut-Wyo State Line Bear nr Woodruff Big Crk nr Randolph, Utah Blacksmith Fork nr Hyrum Little Bear nr Paradise Logan nr Logan (1) Smith's Fork nr Border, Wyoming Woodruff Crk nr Woodruff, Utah	270 95 120 122 8 54 34 129 115	105 101 104 104 93 86 89 97 103 91	Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-June Apr-Sept Apr-Sept Apr-Sept Apr-Sept	208 91 72 47 21 101 77	258 94 115 117 8.6* 63 38 133 112 17.6*
WEBER-OGDEN RIVERS					
Chalk Crk at Coalville East Canyon Crk nr Morgan (2) Lost Crk nr Croydon, Utah Pineview Reservoir Inflow (3) So Fork Ogden nr Huntsville Rockport Reservoir Inflow (4) Weber nr Coalville (5) Weber nr Oakley	39 25 16 120 60 129 135 108	108 98 88 93 97 110 105 108	Apr-Sept Apr-Sept Apr-Sept Mar-July Apr-Sept Apr-July Apr-Sept Apr-June Apr-Sept	28 15.7 12.9 102 50 94 95 88 105	36 25.6 18.1 129 62 117* 128 100 123
PROVO RIVER & UTAH LAKE					
American Fork nr American Fork Hobble Crk nr Springville Payson Creek nr Payson Provo nr Hailstone (6) Provo below Deer Crk Dam (7) Spanish Fork at Thistle Strawberry Reservoir Inflow (8) Utah Lake Inflow	41 25 10 120 159 54 60 310	1 24 118 137 110 118 135 120	Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept	27 74 33 176	33 21.2 7.3 109 135 40 50 282
JORDAN RIVER & SALT LAKE					
Big Cottonwood nr SLC Little Cottonwood Crk nr SLC Parley's Crk nr SLC	39 40 13	100 105 98	Apr-Sept Apr-Sept Apr-Sept	28 29 9.7	39 38 13.3

⁽¹⁾ Includes U.P.& L. Co. tailrace and Logan, Hyde Park & Smithfield Canal. (2) Observed flow plus change in storage in East Canyon Reservoir. (3) Inflow record as computed by U.S. Bureau of Reclamation. (4) Observed flow Weber River near Wanship, Utah, plus change in storage in Wanship Reservoir, plus diversion by Weber-Provo Canal. (5) Includes diversion by Weber-Provo Canal and change in storage in Wanship Reservoir. (6) Observed flow minus diversions thru Duchesne tunnel and Weber-Provo Canal. (7) Observed flow plus change in storage in Deer Creek reservoir, minus diversions thru Duchesne tunnel & Weber-Provo Canal. (8) Change in storage plus diversion thru Strawberry tunnel.



FORECAST POINT	FORECAST THIS YEAR	THIS YEAR AS PERCENT OF AVERAGE	FORECAST PERIOD	LAST YEAR	AVERAGE b
SEVIER RIVER					
Chalk Creek nr Fillmore	18	108	Apr-S ^e pt	10.3	16.7
Clear Crk nr Sevier (abv. Div.) East Fork Sevier nr Kingston (9)	16 14	1 24 89	Apr-June Apr-June		12.9% 15.8
_	18	91	Apr-Sept	4.8	19.8
Inflow Kingston to Vermillion Dam	45	115	Apr-June	22.8	39
Vermillion Dam to Gunnison	66	112	Mar-June	47	59
Salina Crk at Salina (10)	14	169	Apr-June	1.4	8.3%
Sevier nr Circleville	45 55	112 100	Apr-Sept	37	40 %
Sevier nr Gunnison Sevier at Hatch	36	113	Apr-Sept Apr-June	21 35	55 32
	53	118	Apr-Sept	47	45
evier nr Kingston	23	110	Apr-June	15.0	21.0
evier below Piute Dam (11)	27 45	106 100	Apr-Sept Apr-Sept	16.3	25.5 45
AN PITCH RIVER					
phraim Creek nr Ephraim	19	125	Apr-Sept		15.2
leasant Crk nr Mt. Pleasant	12.5	129	Apr-Sept		9.7
win Crk nr Mt. Pleasant	6.1	130	Apr-Sept		4.7
BEAVER RIVER					
Beaver nr Beaver	22	122	Apr-June	12.0	18.0
ockyford Reservoir Inflow (12)	28 6	115 78	Apr-Sept Apr-June	15.1 1.4	24.3 7.8
·	O	, 0	ripi - outic	,, ,	, . 0
OAL CREEK					
oal Crk nr Cedar City	21	131	Apr-Sept	16.4	16.0
COLOR	RADO RIVER	BASIN			
GREEN RIVER TRIBUTARIES IN UTAH					
FLAMING GORGE TO DUCHESNE RIVER					
Ashley Creek nr Vernal	62	111	Apr-Sept	48	56
denry's Fork at Linwood	46	135	Apr-Sept		34

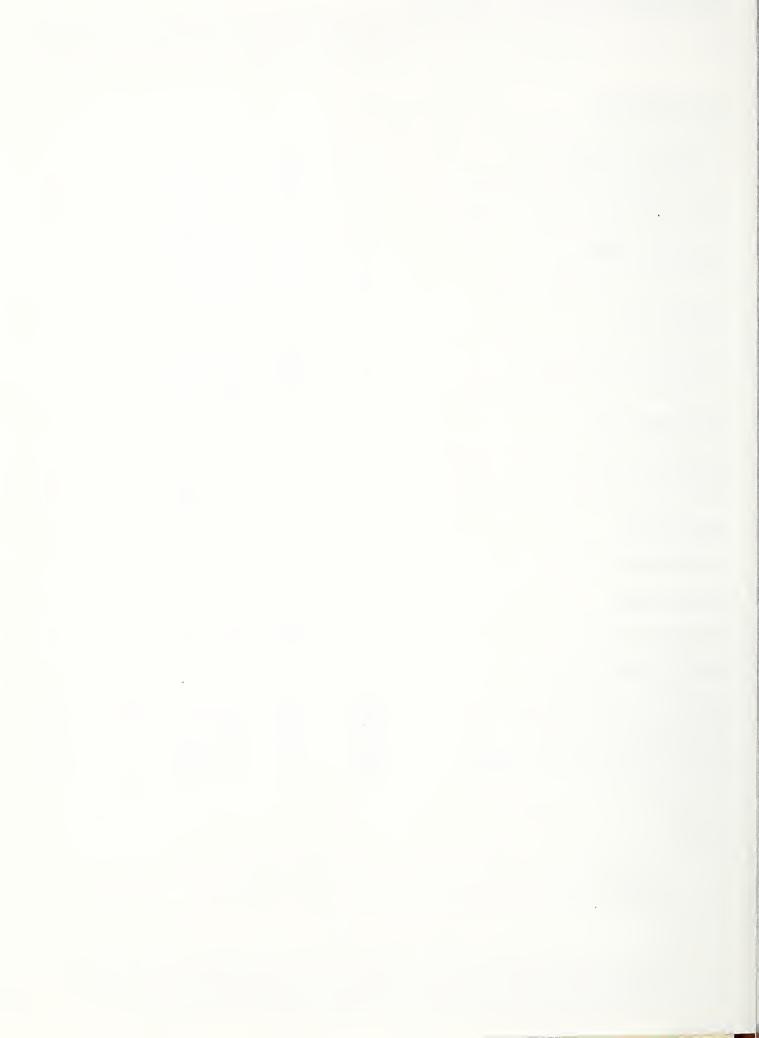


p FORECAST POINT	FORECAST THIS YEAR	THIS YEAR AS PERCENT OF AVERAGE	FORECAST PERIOD	LAST YEAR	AVERAGE b
DUCHESNE RIVER					
Duchesne at Provo River (Trail nr Hanna) Duchesne nr Tabiona (13) Lakefork below Moon Lake (14) Rock Crk nr Mtn. Home Strawberry at Duchesne Uinta nr Neola Whiterocks nr Whiterocks Yellowstone nr Altonah	46 137 85 114 95 116 80 84	131 120 118 112 132 122 127	Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept	 69 77 53 94 60	35* 114 72 102 72 95 63 73
PRICE RIVER					
Gooseberry Crk nr Scofield Price nr Heiner (15) Scofield Reservoir Inflow (15)	16 95 52	1 34 140 141	Apr-Sept Apr-Sept Apr-Sept	8.4 44 21.3	11.9 68 37
SAN RAFAEL RIVER					
Cottonwood Crk nr Orangeville Ferron Crk nr Ferron Huntington Crk nr Huntington	70 49 72	127 117 129	Apr-Sept Apr-Sept Apr-Sept	33 42	55 42 56
MUDDY RIVER					
Muddy Creek nr Emery	27	118	Apr-Sept	12.0	22.8
VIRGIN RIVER					
Virgin nr Virgin	55	1 2 8	Apr-June	39	43
UPPER COLORADO BASIN					
Colorado nr Cisco, Utah (15) Flaming Gorge Inflow (3) Lake Powell Inflow (3) Green at Green River, Utah (15) San Juan nr Bluff, Utah (15)	3800 1150 7800 3400 1075	100 102 101 101 92	Apr-Sept Apr-July Apr-July Apr-Sept Apr-Sept	2148	3789 1129 7692 3368 1172

GENERAL FOOTNOTES

(a) Runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. The discharge data is taken from preliminary records of the U.S. Geological Survey. (b) 1948-62, 15 year period. *Partly estimated.

⁽¹³⁾ Observed flow plus diversion through Duchesne Tunnel. (14) Observed flow plus change in storage in Moon Lake Reservoir. (15) Observed flow plus change in storage reservoir.



RESERVOIR STORAGE (1,000 Ac. Ft.)	GREAT BASIN
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BASIN or STREAM	RESERVOIR	USABLE CAPACITY		MEASURED (FIRST OF MONTH)			
Bear River	Bear Lake	1421.0	1059.0	1172.6	883.7		
beat kivel	Woodruff Narrows	26.5	15.5c	17.7			
Beawer River	Rocky Ford	23.3	7.6	11.9	10.7		
Little Bear	Hyrum	15.3	10.3	10.6	10.1		
Complementum Scientifica Cinia City Complementum	Porcupine	11.3	1.6c	2.5			
0gden	Causey	7.1	0.2	1.1	e e		
	Pineview	110.1	43.3	71.2	8.9		
Provo	Deer Creek	149.7	86.0	111.9	91.4		
Sevier River	Gunnison	18.2	3.4				
	Otter Creek	52.5	14.0	26.4	23.3		
	Piute	71.8	44.5	39.2	31.7		
	Sevier Bridge	236.0	55.4	96.2	92.2		
Spanish Fork	Strawberry	265.4	93.2	115.2	133.0		
Utah Lake	Utah Lake	**883.9	593.4	696.5	595.6		
Weber	East Canyon	48.1	13.4	2.2	12.4		
Angel Proposition of Manage Common	Echo	73.9	45.5	59.0	26.8		
	Lost Creek	18.2	0.0				
	Rockport	60.9	13.6	48.1	15.1		
	Willard Bay	198.2	96.0	80.9			
	COLORADO R	IVER DRAINAGE					
Ashley Creek	Steinaker	33.3	22.2	19.1			
data taligapa da parta paga para a di madalaman (Arma Arma Aria) Arma Arma Aria (Arma Arma)	D 4 44			117 7			
Colorado	Blue Mesa Lake Powell	940.8d 27000.0d	366.0 7660.4	117.7 8804.0			
Green	Flaming Gorge	3789.0d	2165.2	2414.3			
Lake Fork	Moon Lake	35.8	14.0c	31.2	13.0		
Price River	Scofield	65.8	36.6	51.9	18.5		
San Rafael	Joes Valley	54.6	1.9	68 67			
Condemnation, Constitution in a street described	·			283.6			
San Juan	Navajo	1709.0d	397.4	203.0			

^{* -} Average for 1957-62 inclusive

^{** -} Taken at compromise point

All data contained in this table supplied by the U.S. Geological Survey.

⁽a) 1948-62 average. (b) Active capacity taken at 3.1 feet above compromise point. (c) Partly estimated.

^(*) Total capacity reported.



	NO. of COURSES	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF		
RIVER BASIN or TRIBUTARY WATERSHED	AVERAGED	LAST YEAR	AVERAGE *	

GREAT BASIN

	j		
Smith's Fork-Bear River(Wyo)	4	139	120
Mink Creek - Cub River	3	123	83
Logan River	3 5 6	104	93
Blacksmith Fork		114	91
Malad River (Idaho)	2	113	88
Ogden River	5	99	91
Weber River above Echo Dam	5 8	115	106
Chalk Creek - Coalville	2	99	112
East Canyon Creek	3 2	122	133
Farmington Creek		117	88
Salt Lake Area	4	124	101
Tooele Area	1	113	82
American Fork River	2	176	151
Provo River above Vivian Park	7	1 36	121
Strawberry Reservoir Valley	3	131	122
Spanish Fork River	4	174	126
Mt. Nebo Area	2	159	124
Sevier River above Panguitch	3	71	103
East Fork Sevier river	4	67	69
Salina Creek	2	181	118
Mt. Pleasant Area	2	117	1 30
Ephraim Creek	2	172	112
Beaver River	2 3 3	112	102
Coal Creek-Cedar City	3	72	114

COLORADO RIVER BASIN

Duchesne-Strawberry Rivers	5	132	128
Lakefork River	2	117	141
Whiterocks-Uintah Rivers	3	124	139
Price River	5	158	141
San Rafael Tributaries	6	135	127
Escalante River	3	68	68
Virgin River	4	74	108



SNOW PAST RECORD CURRENT INFORMATION WATER WATER CONTENT (Inches) COURSE DRAINAGE BASIN and SNOW DATE OF SNOW DEPTH CONTENT (Inches) AVERAGE a SURVEY LAST YEAR ELEVATION (Inches) NO. NAME

GREAT BASIN DRAINAGE

UPPER BEAR RIVER (Above Harer, Idaho)							
Big Park CCC Camp x Monte Cristo R.S. Piney LaBarge x Salt River Summit x Trial Lake x	10G11 10G7 11H12 10G10 10G8 10J8	8700 7500 8960 8820 7900 9800	1/28 1/30 1/30 1/29 1/30 1/30	47 32 53 56 41 68	13.1 8.4 15.3 16.9 11.2 19.1	11.2 5.4 15.8 11.1 8.5 14.6	10.3* 7.8 16.0* 12.4* 10.2* 16.5*
LOWER BEAR RIVER (Below Harer, Idaho)							
Beaver Crk-Skunk Crk.x Christensen Ranch Cub River R.S. Dry Basin A Dry Bread Pond x Dry Creek Flat Emigrant Summit Garden City Summit Horseshoe Basin A Klondike Narrows Liberty Spring Monte Cristo R.S. Oxford Mountain Steep Hollow #1 Steep Hollow #2 Strawberry Creek Strawberry Mink Divide Tony Grove R.S. Willow Flat	11H14 11G11 11G12 11G13 11H13 12G4 11G6 11H7 11G14 11H1 11G15 11H12 12G3 11H27 11H28 11G9 11G10 11H3 11G4	7150 5600 5400 7900 8230 6350 7700 7600 8000 7400 8420 8960 6800 7700 5800 6800 6250 6100	1/30 1/30 1/30 1/26 Delay	32 22 24 /ed Repo 42 17 54 42 /ed Repo 53 22 83 68 24 48 27 35	11.8 4.3 16.0 10.6 ort 13.9	7.9 5.1 5.0 18.2A 12.2 4.0 11.4 11.3 12.1A 12.0 18.5A 15.8 4.4 21.2 15.6 5.0 9.2 7.1 7.8	8.0* 6.4* 6.5* 11.3* 4.7* 12.5* 13.5* 16.0* 23.0* 7.7* 13.4 9.7*
OGDEN RIVER	441191	7150	3 /AA	2.0	0 1	7.0	0 0
Beaver Crk-Skunk Crk. Ben Lomond(lower) Ben Lomond Peak Ben Lomond Trail Cutler Creek Dry Bread Pond Monte Cristo R.S. Sagebrush Flat	11H14 11H9 11H8 11H30 11H29 11H13 11H12	7150 5850 8000 6000 6780 8230 8960 6300	1/30 1/27 1/27 1/27 1/27 1/30 1/30	32 32 64 35 59 42 53	8.4 6.5 19.1 8.2 15.5 11.8 15.3 3.4	7.9 6.7 19.4 8.3 13.2 12.2 15.8 3.8	8.0* 10.7* 22.0* 11.3* 16.0* 4.2*



SNOW			CU	RRENT INFOR	MATION	PAST R	ECORD
DRAINAGE BASIN and SNO	W COURSE	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONT	ENT (Inches) AVERAGE a
NAME	100.	ELEVATION	33.1.2.		(menes)		
WEBER RIVER							
Beaver Creek R.S. Chalk Creek #2 Chalk Creek #3 Farmington Canyon(lower) Farmington Canyon(upper) Lamb's Canyon x Parley's Canyon Smt. Silver Lake x Smith & Morehouse Trial Lake x	11 J 24 11 J 2 11 J 3 11 J 12 11 J 11 11 J 14 11 J 15 11 J 16 11 J 4 10 J 8	7500 8000 7500 6950 8000 6600 7500 8725 7600 9800	1/30 1/27 1/27 1/30 1/30 1/26 1/28 1/27 1/31 1/30	28 44 25 41 63 43 44 63 37	6.6 10.7 4.6 10.6 17.6 9.4 10.9 17.0 7.8 19.1	4.9 9.7 5.2 9.2 14.6 7.0 8.4 16.5 8.7	6.2* 8.5* 4.7* 15.0* 16.8* 9.5* 11.6* 16.0 7.8*
PROVO RIVER & UTAH LAKE							
Camp Altamont Clear Creek Ridge #2 Clear Creek Ridge #3 Daniels-Strawberry Smt. East Portal Payson R.S. Rock Bridge Soapstone R.S. South Fork R.S. Strawberry Divide Timpanogos Cave Camp Timpanogos Divide Trial Lake JORDAN RIVER & TOOELE VAL Lamb's Canyon Middle Canyon Mill D South Fork	11J14 12J3	7300 8000 6600 8000 7560 8050 6750 7800 6100 8000 5500 8140 9800	1/30 1/27 1/27 1/31 1/30 1/26 1/30 1/30 1/30 1/30 1/30 1/30	54 50 35 40 58 37 25 54 55 68 43 55	17.9 10.9 7.0 14.7 9.6 8.6 9.8 7.6 14.6 26.8 19.1	9.0 7.2 3.1 9.4 7.8 10.2 4.9 6.9 2.8 11.7 0.5 17.5 14.6	11.9 8.9* 5.2* 10.1 8.1 10.5* 7.8* 8.0* 5.9 13.3 2.8 17.6 16.5*
Mill D South Fork Parley's Canyon Smt. x	11J10 11J15	7400 7500	1/27 1/28	44	12.7 10.9	10.0	12.0* 11.6*
Silver Lake UPPER SEVIER RIVER (South of Richfield, Utah	11J16 <u>)</u>	8725	1/27	63	17.0	16.5	16.0
Big Flat x Bryce Canyon Duck Creek R.S. Harris Flat R.S. Long Valley Jct. x Midway Valley Widtsoe-Escalante Smt. Widtsoe-Escalante #2 Widtsoe-Escalante #3 Kimberly Mine	12L7 12M8 12M4 12M5 12M6 12M2 11M1 11M2 11M3 12L6	10290 8000 8560 7700 7500 9800 9500 9500 9500	1/31 1/30 1/31 1/31 1/31 1/30 1/27 1/27 1/27 1/27	50 15 32 19 14 63 16 24 29	15.0 2.7 7.8 4.8 3.8 17.4 3.5 5.0 5.8	9.2 4.3 13.0 6.2 Trace 19.9 5.5 6.4 9.0	10.6* 3.8* 9.0* 5.7* 3.2* 12.5* 5.1 6.8* 9.3*

⁽a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1948-62, 15 year average.



DRAINAGE BASIN and SNO	OW COURSI		DATE OF	SNOW DEP	TH WATER	WATER CON	TENT (Inches)
NAME	NO.	ELEVATION	_	(Inches)		LAST YEAR	AVERAGE a
LOWER SEVIER RIVER (Including San Pitch Rive	r)						
Farnsworth Lake G.B.R.C. Headquarters G.B.R.C. Meadows Gooseberry R.S. Gooseberry Reservoir x Mammoth R.SCtnwd. Crk. Shingle Mill	11L1 11K11 11K10 11L2 11K4 11K3	9900 8700 10000 8400 8700 8800 6200	1/30 2/1 2/1 1/30 1/27 1/27 1/30	39 38 56 23 49 57	11.6 10.2 16.3 6.8 14.9 16.4 4.6	5.8 5.3 10.7 4.2 8.7 10.0 2.4	9.5* 9.0* 14.5* 5.9* 11.8* 12.2* 5.5*
BEAVER RIVER							
Big Flat Merchant's Valley Otter Lake	12L7 12L9 12L8	10290 8200 9300	1/31 1/26 1/26	50 23 42	15.0 3.8 8.6	9.2 5.7 8.1	10.6* 5.8* 8.7*
COAL CREEK							
CSU Ranch Midway Valley x Urie Flat Webster Flat	12M17 12M2 12M10 12M3	8200 9800 8450 9200	1/30 1/30 1/30 1/30	17 63 18 46	4.5 17.4 3.9 11.8	8.2 19.9 6.8 16.7	 12.5* 4.7* 9.8*
PAROWAN CREEK							
Birch Crossing Brian Head Ed Ward Flat Tall Poles Yankee Reservoir	12M16 12M14 12M12 12M15 12M11	8100 10400 8300 8800 8700	1/27 1/27 No Re 1/27 No Re	34	3.0 10.5 6.9	3.7 13.5 5.1 8.2 6.3	
		OLORADO F	RIVER DRA	NINAGE			
UPPER GREEN RIVER IN UTAH (Tributaries above Flamin		<u>)</u>					
Buck Pasture A Henry's Fork A Steel Creek Park A	10J23 10J24 10J20	9700 10200 9900	Delay	ed Readed Readed Readed	ding	 	
DUCHESNE RIVER							
Ashley Twin Lakes A Atwood Basin A Chepeta-Whiterocks Lks.A Daniels-Strawberry Smt. x East Portal x Five Point Lake A Indian Canyon Julius Park	11J7	10500 10250 10300 8000 7560 11000 9100 9800	Delay Delay 1/31 1/30	ed Realed	ding ding 14.7 9.0	10.5 9.4 7.8 10.2 9.2	 10.1 8.1 8.2 8.9*

CURRENT INFORMATION

PAST RECORD

SNOW



DRAINAGE BASIN and SNOW	COURSE		DATE OF	SNOW DEPTH	WATER	WATER CONT	ENT (Inches)					
NAME	NO.	ELEVATION	SURVEY	(Inches)	CONTENT (Inches)	LAST YÈAR	AVERAGE a					
DUCHESNE RIVER - Continued												
Lakefork Basin A Lakefork Mountain Lakefork Mountain #2 Lakefork Mountain #3 Mosby Mountain Paradise Park Reynolds Park A Soapstone R.S. x Strawberry Divide Trial Lake Windy Park A PRICE RIVER	10J25 10J10 10J11 10J12 9J5 9J3 9J10 11J25 11J8 10J8 9J12	11100 10500 8900 8100 9500 10100 10400 7800 8000 9800 9400	1/25 1/25 1/25 1/27 1/27 Dela 1/30 1/30	yed Read 48 44 39 44 50 yed Read 54 68 yed Read	8.9 8.3 7.3 9.8 11.5 ling 9.8 14.4 19.1	8.3 6.5 5.5 8.1 9.7 6.9 11.7 14.6	7.3* 5.2* 4.2* 6.8* 8.4* 					
Clear Creek Ridge #2 x Dry Valley Divide Gooseberry Reservoir Indian Canyon x Jones Ranch Mammoth R.SCtnwd. Crk.x Mud Creek #2	11K22 11K8 11K4 10K1 11K7 11K3 11K33	8000 7800 8700 9100 7600 8800 8300	1/27 1/30 1/27 1/30 1/30 1/27 1/30	50 40 49 47 2 6 57 45	10.9 11.0 14.9 11.9 6.8 16.4 11.4	7.2 6.0 8.7 10.2 4.0 10.0 7.4	8.9* 7.0* 11.8* 8.2 5.1* 12.2* 8.1*					
SAN RAFAEL RIVER												
Buck Flat G.B.R.C. Meadows x Gooseberry Reservoir Red Pine Ridge Rush Pond Upper Joe's Valley Wrigley Creek	11K31 11K10 11K4 11K28 11K38 11K29 11K32	9400 10000 8700 9400 9800 8800 9000	1/26 2/1 1/27 1/27 1/26 1/27 1/26	43 56 49 55 43 38 37	10.0 16.3 14.9 13.6 8.3 7.3	7.2 10.7 8.7 9.8 6.8 5.8 7.0	8.4* 14.5* 11.8* 9.8* 7.8* 5.3* 5.8*					
FREMONT RIVER												
Farnsworth Lake x	11L1	9900	1/30	3 9	11.6	5.8	9.5*					
ESCALANTE RIVER												
Widtsoe-Escalante Smt. Widtsoe-Escalante #2 Widtsoe-Escalante #3	11M1 11M2 11M3	9500 9500 9500	1/27 1/27 1/27	16 24 29	3.5 5.0 5.8	5.5 6.4 9.0	5.1 6.8* 9.3*					
VIRGIN RIVER												
Duck Creek R.S. Harris Flat R.S. Long Valley Junction Midway Valley x Webster Flat	12M4 12M5 12M6 12M2 12M3	8560 7700 7500 9800 9200	1/31 1/31 1/31 1/30 1/30	32 19 14 63 46	7.8 4.8 3.8 17.4 11.8	13.0 6.2 Trace 19.9 16.7	9.0* 5.7* 3.2* 12.5* 9.8*					

PAST RECORD

INFORMATION

CURRENT

SNOW



PRECIPITATION DATA (Inches)

DRAINAGE BASIN	EL EVATION	CURRE			FROM APPROX. OCT. I TO DATE			
AND RAIN GAGE LOCATION	ELEVATION	DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE	
				a	•	а		
	GREAT B	ASIN DRA	NAGE					
UPPER BEAR RIVER								
Above Harer, Idaho)								
Chalk Creek #2*	8000	1/27			12.79	10.65	120	
Chalk Creek #3*	7500	1/27			9.76	8.75	112	
Monte Cristo #2	8960	1/30		 2 6 F	17.06	18.10	94	
Salt River Summit Trial Lake*	7900 9800	1/30 1/30	6.00 7.07	3.65 4.50	10.35 20.29	11.40 15.55	91 130	
	,	1/)0	, ,	,	20.2)	. , , , , ,	1) 0	
LOWER BEAR RIVER (Below Harer, Idaho)								
Dry Bread Pond	8230	1/30			14.84	13.95	106	
Garden City Summit	7600	1/26	3.81	3.85	10.72	12.10	89	
(londike Narrows	7400	1/26	5.89	4.80	15.03	15.00	100	
Monte Cristo #2	8960	1/30			17.06	18.10	91	
Tony Grove R.S.	6250	1/26	3.70	3.71	10.09	11.57	87	
√illow Flat	6100	1/27	5.57		14.10	15.40	92	
OGDEN RIVER								
Ben Lomond(1ower)	5850	1/27	4.36	5.70	15.81	16.30	97	
Ben Lomond Trail	6000	1/27	5.20	5.92	16.58	17.05	97	
ausey Dam	5500	1/30	2.36		8.45	8.85	95	
Ory Bread Pond Monte Cristo #2*	8230 8960	1/30 1/30		- -	14.84 17.06	13.95 18.10	106 91	
Sagebrush Flat	6300	1/30			9.00	9.35	96	
/EBER RIVER	-	,						
		. / -						
Shalk Creek #2	8000	1/27			12.79	10.65	120	
Chalk Creek #3 Farmington Guard Sta.(1)	7500 7500	1/27 2/1	6.30	 5.60a	9.76 18.73	8.75 19.00a	11: 9:	
armington Rice (1)	7000	2/1	5.75	5.13a	16.73	17.12a	9(
Parley's Canyon Smt.	7500	1/28	5.30	4.05	11.56	13.50	8	
Silver Lake(Brighton)*(2)	8725	1/31	5.77	5.39a	19.43	18.37a	106	
Smith & Morehouse	7600	1/31	4.80	3.60	13.31	11.90	11:	
Γrial Lake∜	9800	1/30	7.07	4.50	20.29	15.55	13	



PRECIPITATION DATA (Inches)

TREDITIATION DATA (IIIOII03)	1	0.110.0			T ====================================	2224	0.5175
DRAINAGE BASIN JAND RAIN GAGE LOCATION	ELEVATIO	N DATE OF READING	MONTH'S PRECIPITATION	MATION 1948 - 62 AVERAGE	THIS YEAR	PROX. IO/I TO 1948-62 AVERAGE	PERCENT OF
			1,	a		a	
PROVO RIVER & UTAH LAKE				_			
Clear Creek Ridge #2 Daniels-Strawberry Smt. East Portal Ridge Payson Ranger Station Soapstone R.S. Timpanogos Divide Trial Lake	8000 8000 7800 8050 7800 8200 9800	1/27 1/31 1/30 1/26 1/30 1/30	4.15 4.25 3.90 3.87 8.10 7.07	3.50 3.50 3.50 3.15 5.53a 4.50	14.29 15.67 14.05 15.55 11.90 28.40 20.29	11.00 11.85 11.85 11.65 10.50 17.26a 15.55	130 132 119 133 113 165 130
JORDAN RIVER & TOOELE VALL	ΕΥ						
Middle Canyon Mt. Dell Dam (2) Parley's Canyon Smt. Silver Lake(Brighton)(2)	7000 5500 7500 8725	1/30 1/31 1/28 1/31	2.83 3.41 5.30 5.77	3.10 2.15a 4.05 5.39a	8.33 9.24 11.56 19.43	11.30 8.26a 13.50 18.37a	74 112 86 106
SEVIER RIVER ABOVE RICHFIE	<u>LD</u>						
Big Flat Cedar Breaks Duck Creek R.S. Webster Flat* Widtsoe-Escalante #3 Widtsoe R.S. Kimberly Mine SEVIER RIVER BELOW RICHFIE (Including San Pitch River	_	1/31 No Report 1/31 1/30 1/27 1/27 1/30	5.11 5.70 2.24 1.06 3.27	 3.65 4.00 1.95 0.75a 3.10	14.68 21.09 17.23 8.00 3.64 15.97	11.20 13.55 12.00 12.90 8.20 3.46a 10.95	131 176 134 98 105 146
Farnsworth Lake G.B.R.C. Headquarters(1) G.B.R.C. Meadows(1) G.B.R.C. Oaks (1) Gooseberry R.S. (1) Gooseberry Reservoir* Mammoth R.S. #2* Shingle Mill BEAVER RIVER	9900 8700 10000 7655 7800 8700 8600 6200	1/30 2/1 2/1 2/1 1/30 1/27 1/27 1/30	2.71 2.82 4.19 2.00 1.72 4.34 4.87 2.21	3.15 3.40a 3.56a 2.14a 1.85 3.60 3.55 2.55	11.48 13.74 17.67 10.19 9.46 15.01 16.84 11.75	11.15 11.16a 12.31a 7.73a 7.65 11.75 11.65 9.05	103 123 144 132 124 128 145 130
Beaver Canyon P.H. (2) Big Flat Merchant Valley COAL CREEK	7275 10290 8650	1/31 1/31 1/26	1.63 	2.07a 	8.20 14.68 12.58		140 131
Cedar Breaks Webster Flat*	10390 9200	No Repo 1/30	rt 5.70	4.00	17.23	13.55 12.90	 134
PAROWAN CREEK Tall Poles Yankee Reservoir	8800 8700	1/27 No Repo			10.19	 7.35	

⁽¹⁾ Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.



p	R	F	r.	ΙP	IT	Δ	T	lſ	IN		A	T	A	(1	n	C	hes)
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DRAINAGE BASIN	ELEVATION	V DATE OF	MONTH'S	1948 - 62	THIS YEAR	1948-62	PERCENT OF
AND RAIN GAGE LOCATION	COLO	VIKADOARIV	ER PEDRIATE	NA GERAGE	THIS TEAR	AVERAGE	AVERAGE
UPPER GREEN RIVER IN UTAH (Tributaries above Flaming	Gorge)			а		а	
Burnt Creek	7900	1/30	1.63		6.11		
GREEN RIVER TRIBUTARIES BE FLAMING GORGE & DUCHESNE R							
Grizzly Ridge	8500	1/30	3.66		10.42		
DUCHESNE RIVER							
Daniels-Strawberry Smt.* East Portal Ridge* Indian Canyon Julius Park Lakefork Mountain Moon Lake Mosby Mountain Paradise Park Soapstone R.S.* Trial Lake*	8000 7800 9100 9800 10500 8150 9500 10100 7800 9800	1/31 1/30 1/30 1/27 1/25 No Repo 1/27 1/27 1/30 1/30	4.15 4.25 3.45 3.43 rt 3.25 4.73 3.87 7.07	3.50 3.50 3.35 2.40 1.67e 2.85 3.15 4.50	15.67 14.05 12.13 11.22 10.07 11.28 12.89 11.90 20.29	11.85 11.85 10.15 9.80 9.15 5.92a 10.50 15.55	132 119 120 114 110 123 113 130
PRICE RIVER							
Clear Creek Ridge #2* Gooseberry Reservoir Indian Canyon Mammoth R.S. #2 Mud Creek	8000 8700 9100 8600 8300	1/27 1/27 1/30 1/27 1/30	 4.34 3.45 4.87 3.45	3.60 3.35 3.55 3.15	14.29 15.01 12.13 16.84 12.55	11.00 11.75 10.15 11.65 10.30	130 128 120 145 122
SAN RAFAEL RIVER							
Buck Flat G.B.R.C. Meadows*(1) Gooseberry Reservoir Orange Olsen Red Pine Ridge	9400 10000 8700 7300 9400	1/26 2/1 1/27 1/27 1/27	4.19 4.34 	3.56a 3.60 	12.65 17.67 15.01 9.30 16.20	10.15 12.31a 11.75 12.10	125 144 128 134
FREMONT & ESCALANTE RIVERS							
Farnsworth Lake* Widtsoe-Escalante #3	9900 9500	1/30 1/27	2.71 2.24	3.15 1.95	11.48 8.00	11.15	103 98
VIRGIN RIVER							
Duck Creek R.S. Webster Flat	8560 9200	1/31 1/30	5.11 5.70	3.65 4.00	21.09 17.23	12.00 12.90	176 134

CURRENT INFORMATION

FROM APPROX, IO/I TO DATE



Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

- U.S. Department of Agriculture Soil Conservation Service Forest Service
- U.S. Department of Commerce Weather Bureau
- U.S. Department of Interior
 Bureau of Reclamation
 Geological Survey
 National Park Service

STATE AGENCIES

Utah Agricultural Experiment Station
Utah Fish and Game Department
Utah State Engineer
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

Utah Water and Power Board

MUNICIPALITIES

Manti Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

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